

How to change front coil springs on VW Touran 1T1 1T2 – replacement guide

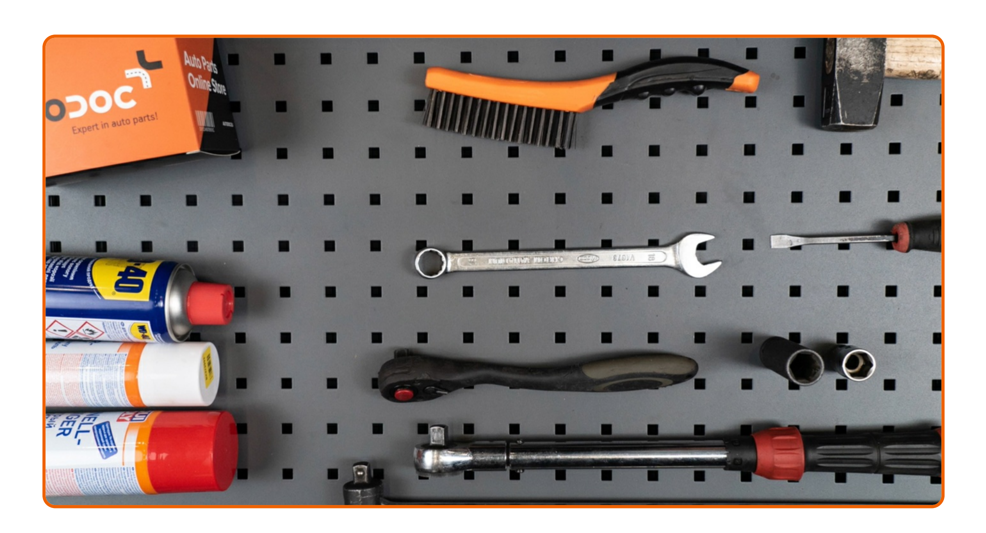
 VIDEO TUTORIAL

Important!

This replacement procedure can be used for:
VW GOLF PLUS (5M1, 521) 2.0 TDI, VW GOLF V (1K1) 2.0 TDI, VW GOLF V (1K1) 2.0 TDI 4motion, VW GOLF V Variant (1K5) 2.0 TDI, VW JETTA III (1K2) 2.0 TDI, VW TOURAN (1T1, 1T2) 2.0 TDI

The steps may slightly vary depending on the car design.

REPLACEMENT: COIL SPRINGS – VW TOURAN 1T1 1T2. TOOLS YOU MIGHT NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #11
- Combination spanner #17
- Combination spanner #21
- HEX bit no.H6.
- Torx bit T30
- XZN socket bit # 12
- Drive socket # 13
- Drive socket # 16
- Drive socket # 18
- Drive socket # 19
- Drive socket # 21
- Drive socket # 24
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Shock absorber socket
- Tap wrench
- Crow bar
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

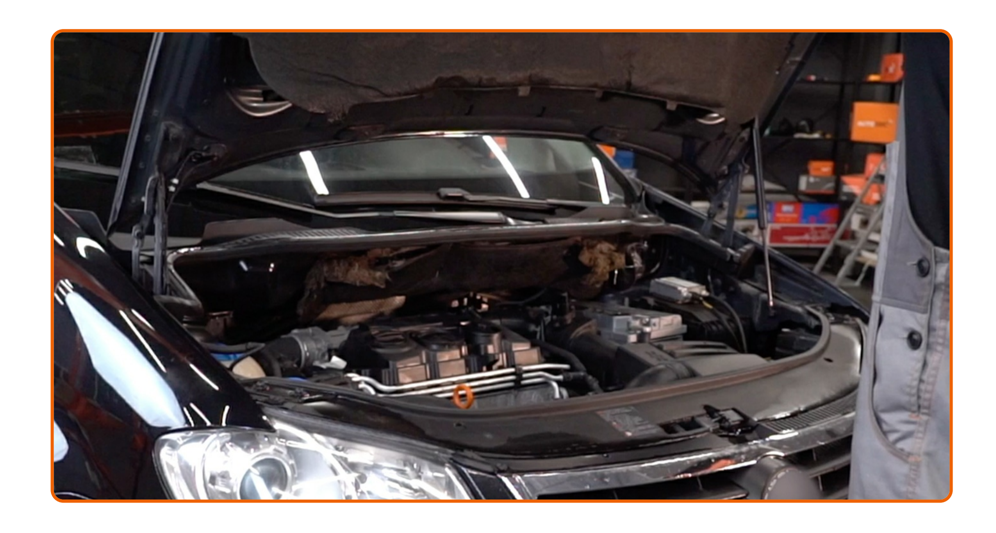


Replacement: coil springs – VW Touran 1T1 1T2. AUTODOC recommends:

- Both coil springs of the front suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right coil springs of the front suspension.
- Please note: all work on the car – VW Touran 1T1 1T2 – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1



Open the bonnet.

2



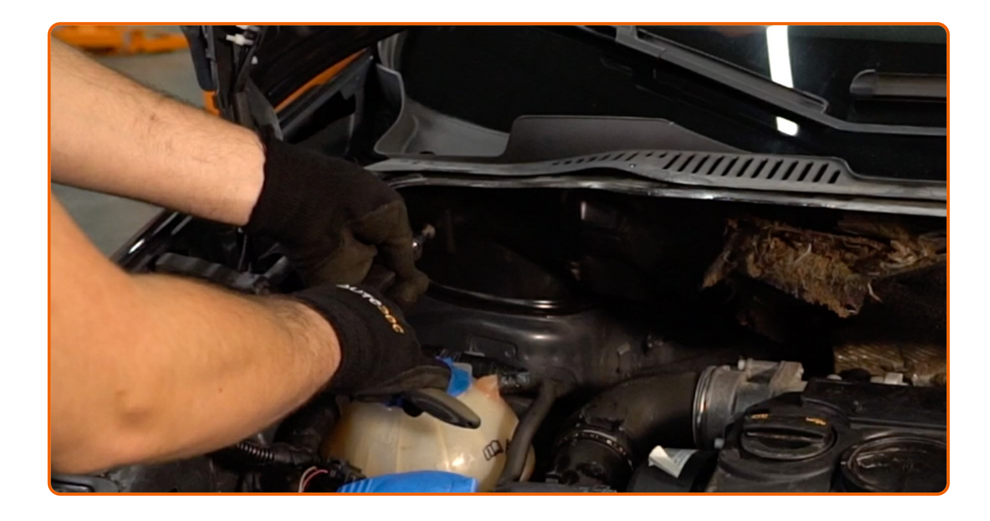
Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.

3



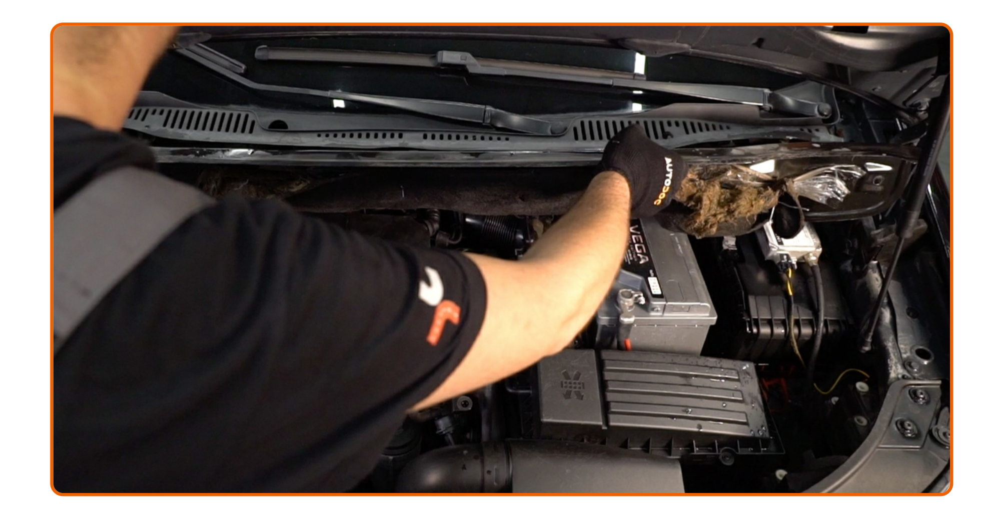
Remove the cowl grille seal.

4



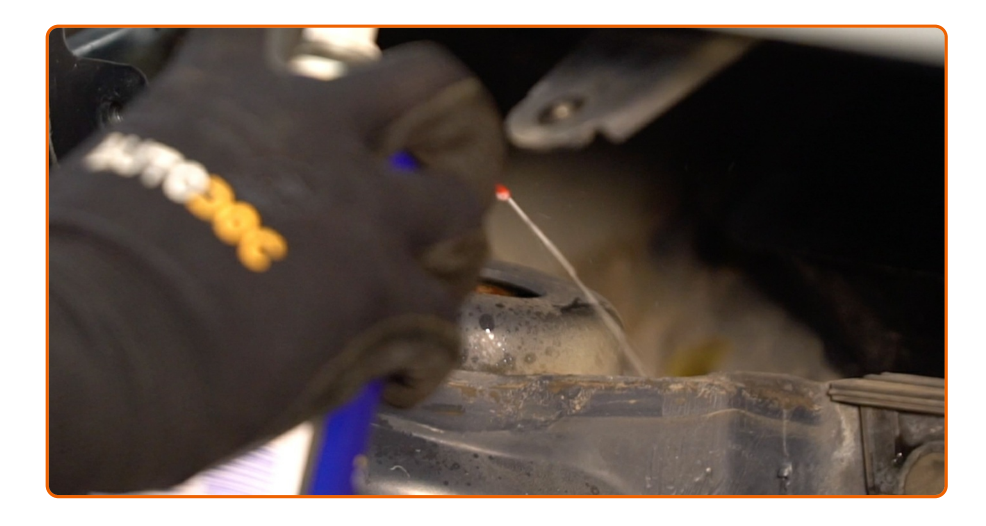
Unscrew the fasteners of the windscreen wiper scuttle tray. Use Torx T30.

5



Remove the windscreen wiper scuttle tray.

6



Clean the fasteners of the shock strut upper mount. Use a wire brush. Use WD-40 spray.

7



Loosen the upper fastener of the shock strut mount. Use a drive socket #13. Use a ratchet wrench.

8



Secure the wheels with chocks.

9



Loosen the wheel hub fastener. Use a drive socket #24. Use a tap wrench.

10



Loosen the wheel mounting bolts. Use wheel impact socket #17.

11



Raise the front of the car and secure on supports.

12



Unscrew the wheel bolts.

AUTODOC recommends:

- Important! Hold the wheel while unscrewing the fastening bolts. VW Touran 1T1 1T2

13



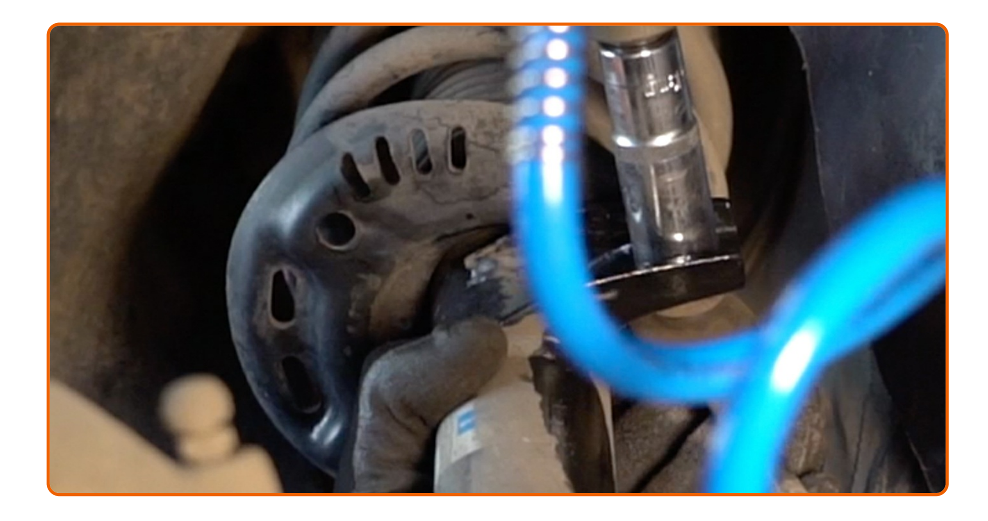
Remove the wheel.

14



Clean the stabiliser link fasteners. Use a wire brush. Use WD-40 spray.

15



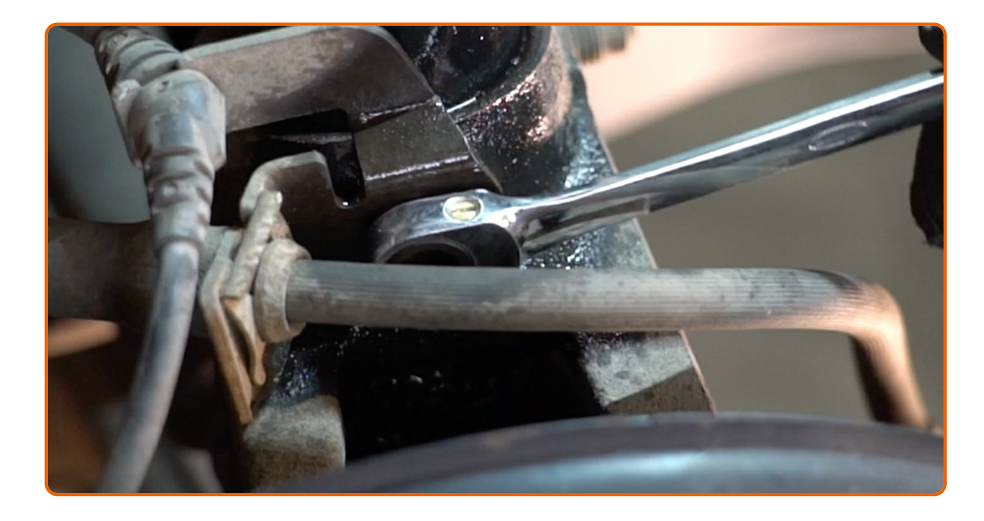
Unscrew the fastener connecting the stabilizer link to the shock strut. Use a drive socket #19. Use a ratchet wrench.

16



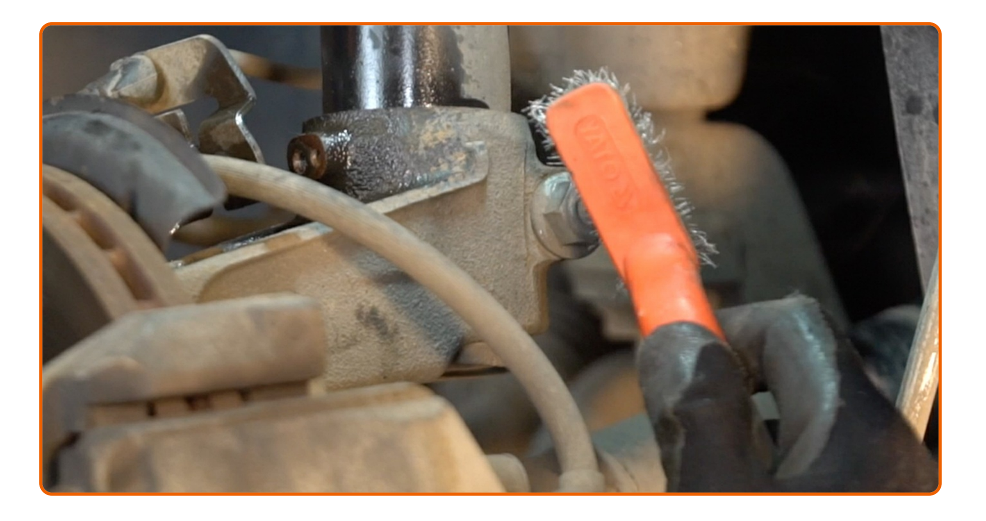
Clean the brake hose bracket fasteners. Use a wire brush. Use WD-40 spray.

17



Unscrew the bolt and remove the mounting bracket of the brake hose and the ABS cable. Use a combination spanner #11.

18



Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.

19



Unscrew the lower fastener of the shock absorber strut. Use a drive socket #18. Use XZN #12. Use a tap wrench. Use a ratchet wrench.

20



Remove the stabilizer rod.

21



Remove the fastening bolt. Use a drive socket #24.

22



Clean the splines of the drive shaft CV joint. Use WD-40 spray.

23



Clean all joints of the arm. Use a wire brush. Use WD-40 spray.

24



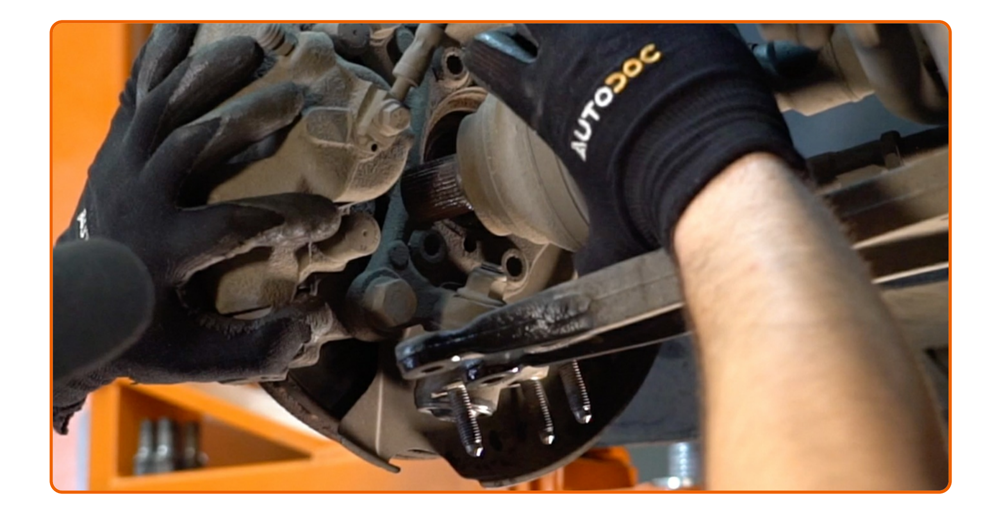
Unscrew the fastener connecting the ball joint to the suspension control arm. Use a drive socket #16. Use a tap wrench.

25



Disconnect the spherical joint from the arm. Use a crowbar.

26



Remove the drive shaft from the wheel hub.

Replacement: coil springs – VW Touran 1T1 1T2. Tip from AUTODOC:

- Make sure that the drive shaft is not unloaded (when the car is jacked).

27



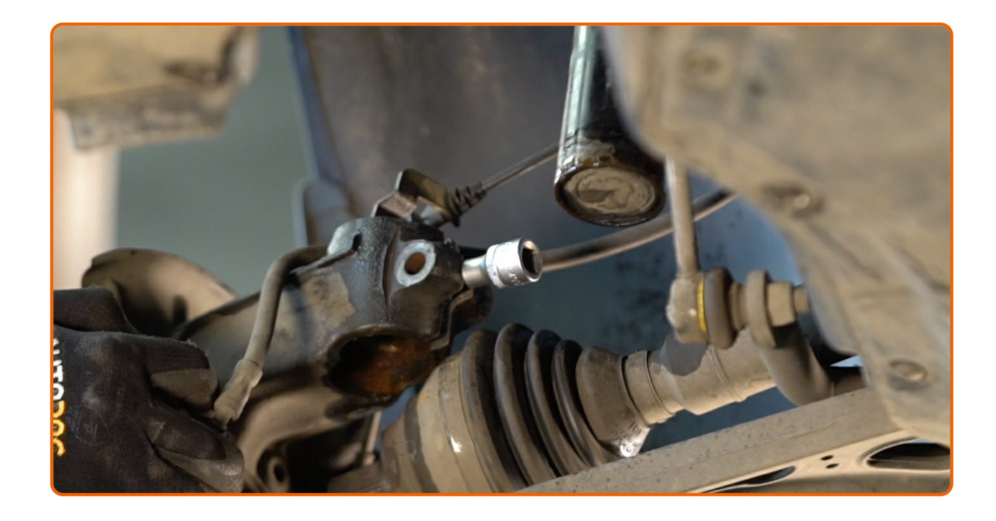
Prop up the steering knuckle. Use a hydraulic transmission jack.

28



Release the lower fastener connecting the shock strut to the steering knuckle. Use a special drive socket to remove the shock absorber. Use a ratchet wrench.

29



Disconnect the steering knuckle from the shock absorber strut.

30

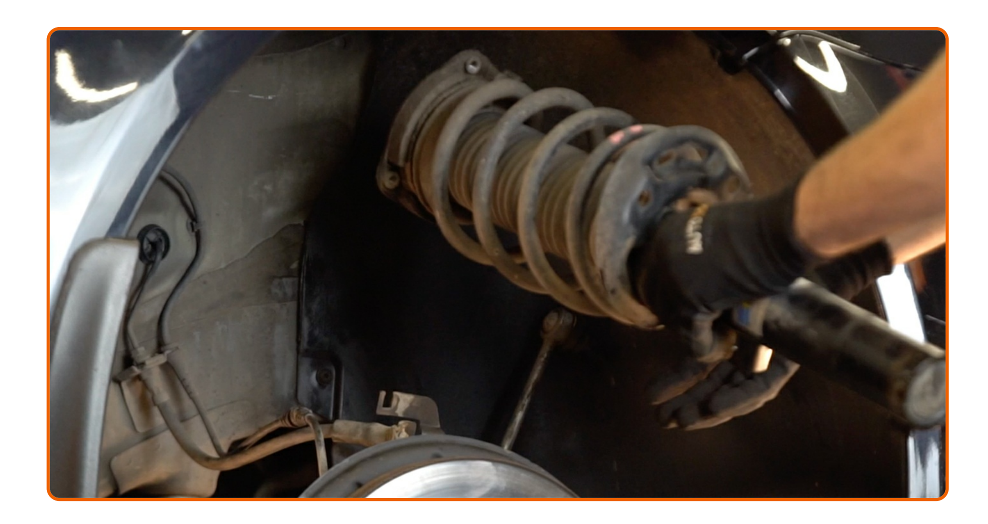


Unscrew the top fastening of the shock strut mount. Use a drive socket #13.

AUTODOC recommends:

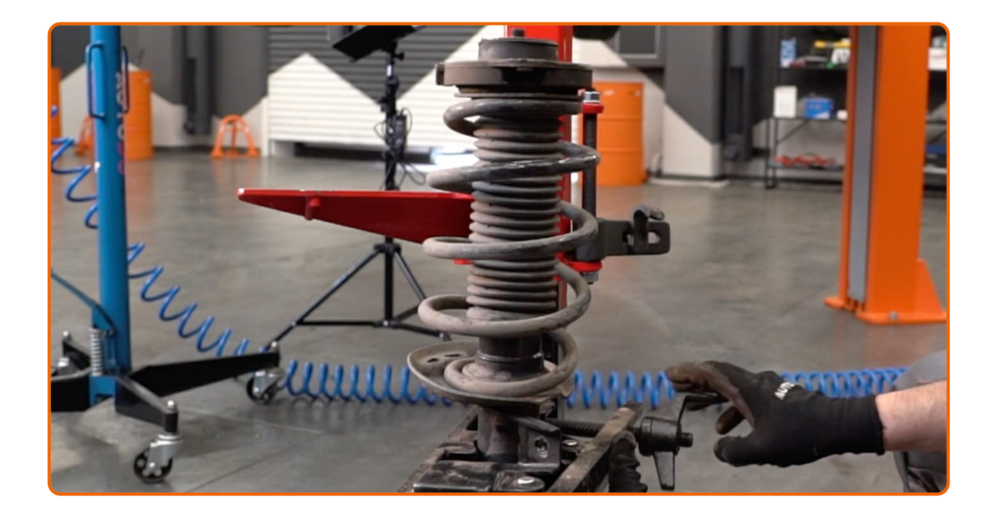
- VW Touran 1T1 1T2 – To avoid injury, hold the suspension strut while unscrewing the fastening bolts.

31



Remove the suspension strut.

32

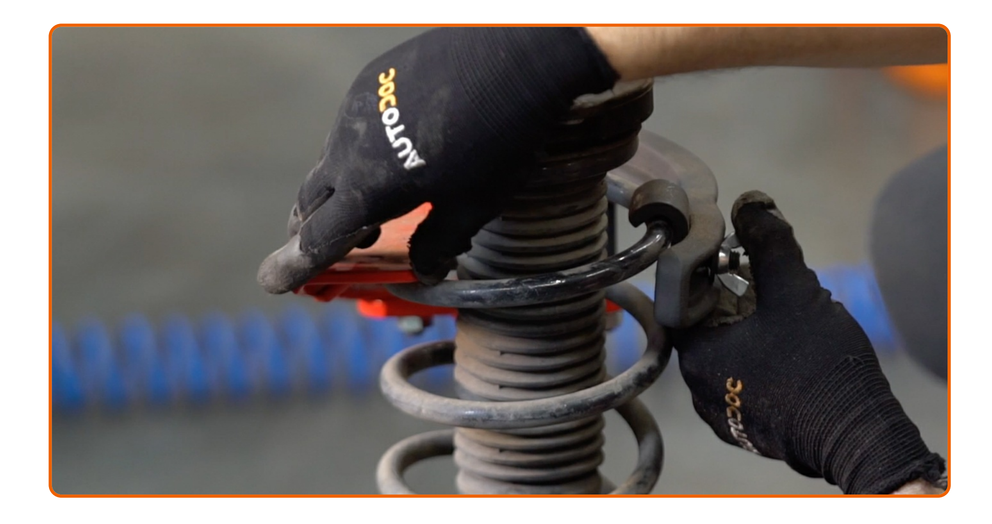


Set the shock absorber strut on the spring compressor tool.

Replacement: coil springs – VW Touran 1T1 1T2. Professionals recommend:

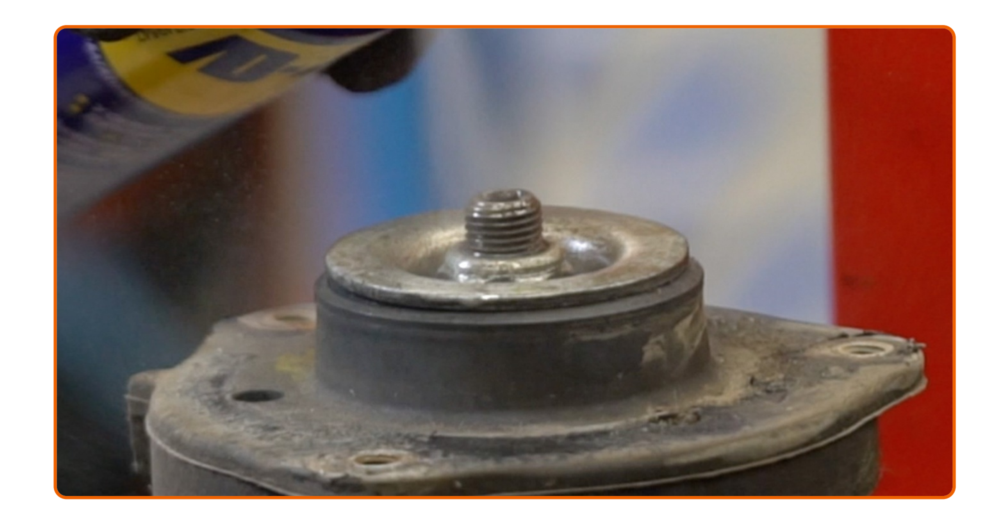
- Note that when using a spring compressor, spring coils need to be securely gripped, compressing the spring on the opposite sides.
- Ensure the correct position of the spring in the retainer.
- Make sure that the spring coils tightly entered the lock handles.

33



Compress the spring.

34



Treat the shock strut rod. Use a wire brush. Use WD-40 spray.

35



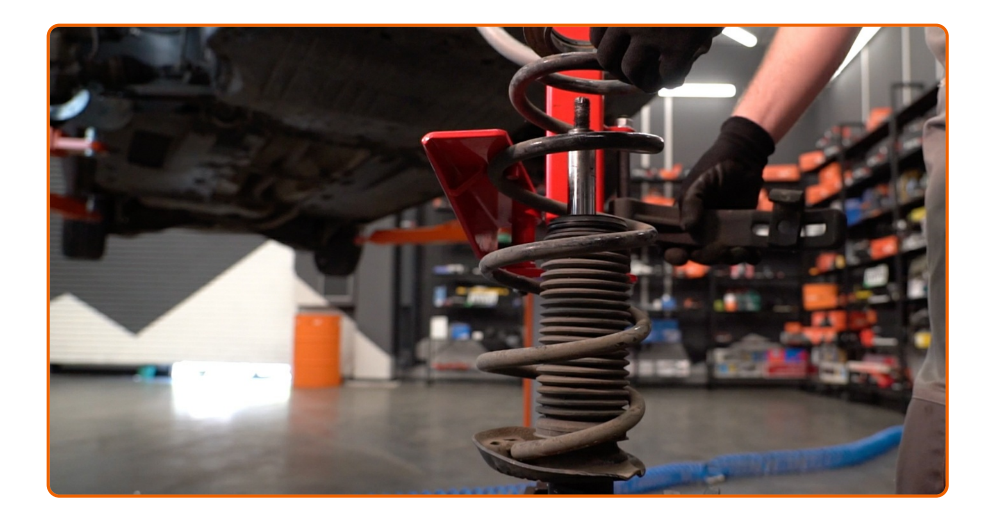
Remove the strut piston rod nut. Use HEX No.H6. Use a combination spanner #21. Use a ratchet wrench.

36



Remove the top strut mount.

37



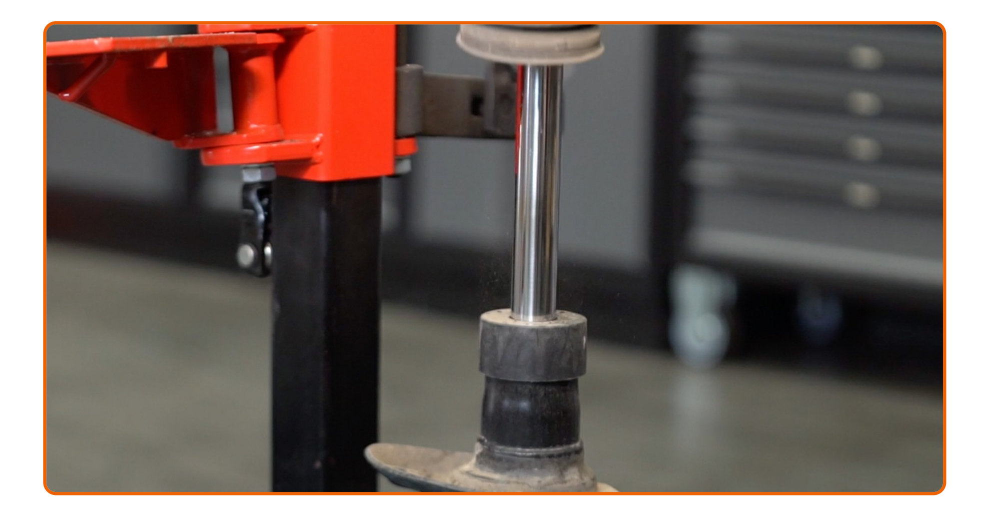
Release the coil spring.

38



Remove the spring.

39



Remove the shock absorber dust cap and the bump stop.

AUTODOC recommends:

- Replacement: coil springs – VW Touran 1T1 1T2. Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

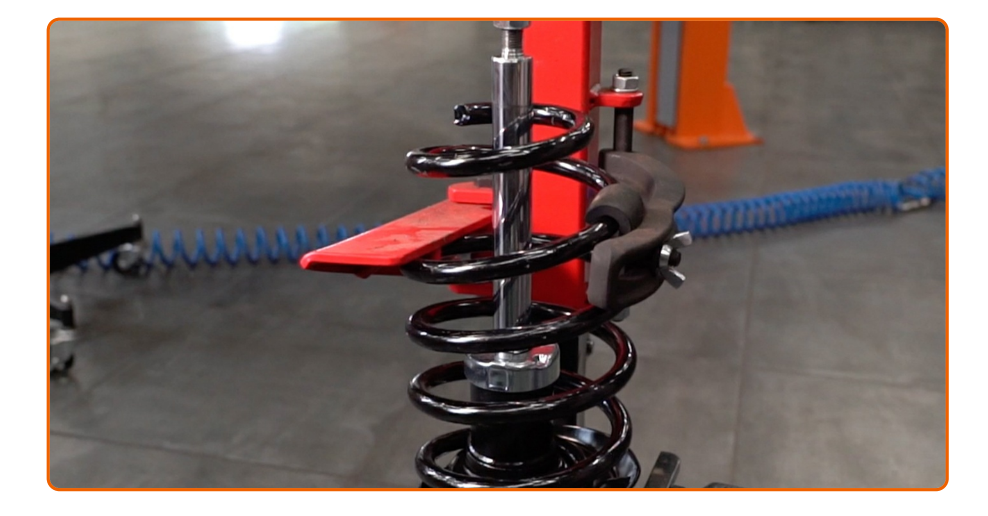
40



Install the spring on the shock absorber.



41



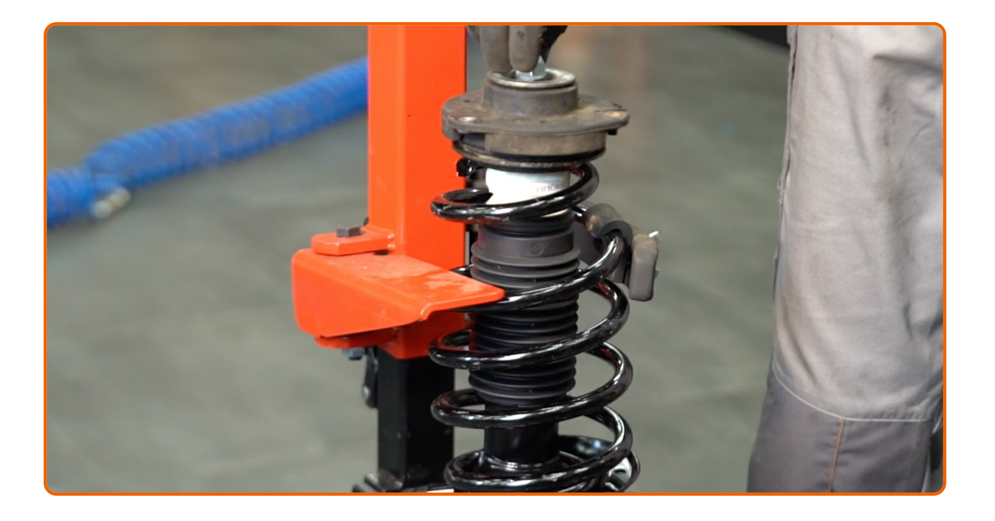
Compress the spring.

42



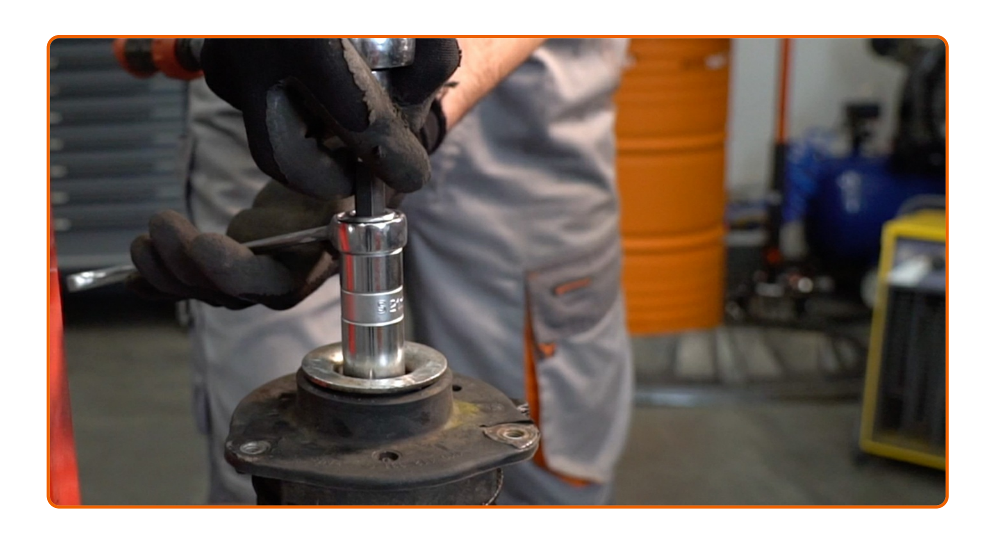
Install the dust sleeve and the bump stop on the new shock absorber.

43



Install the upper strut mount and the strut mount bearing.

44

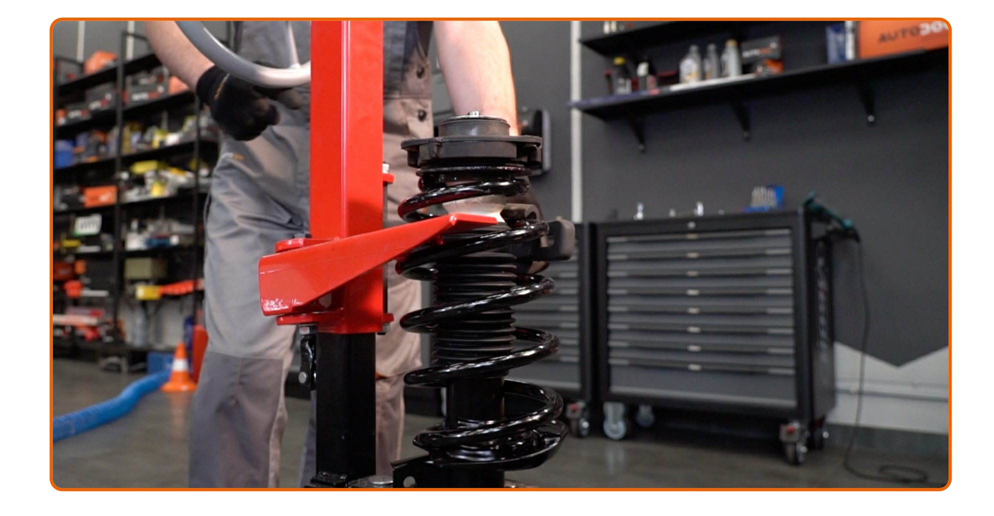


Tighten the shock strut piston rod nut. Use HEX No.H6. Use a drive socket #21. Use a torque wrench. Tighten it to 60 nm torque.

Replacement: coil springs – VW Touran 1T1 1T2. Tip:

- Check to make sure the spring is positioned correctly. Avoid its misalignment.

45



Decompress the spring.

46



Remove the assembled shock strut.

47



Install the shock strut into the wheel arch.

48



Screw the top fastening of the shock strut mount. Do not tighten it.

AUTODOC recommends:

- VW Touran 1T1 1T2 – To avoid injury, hold the suspension strut while screwing in the fastening bolts.

49



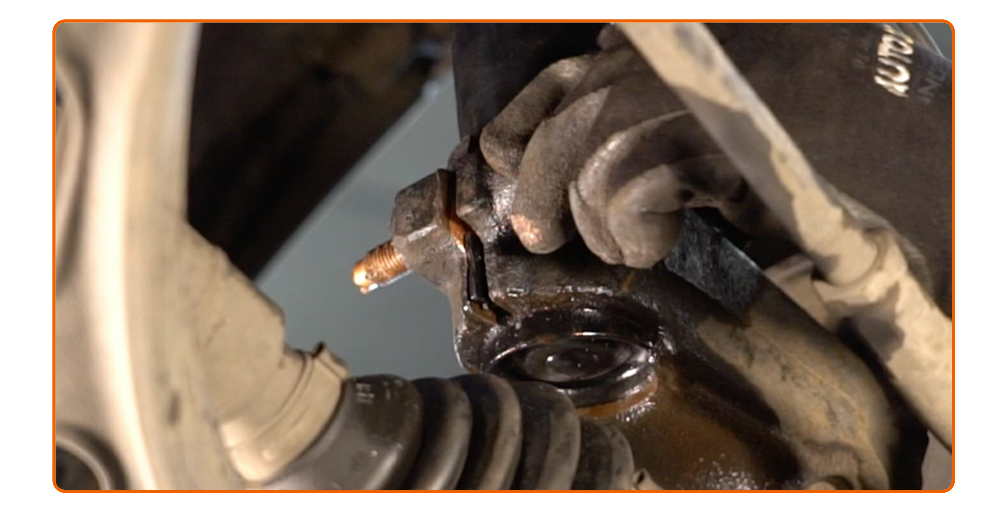
Clean the mounting seats of the shock strut. Use a wire brush. Use WD-40 spray.

50



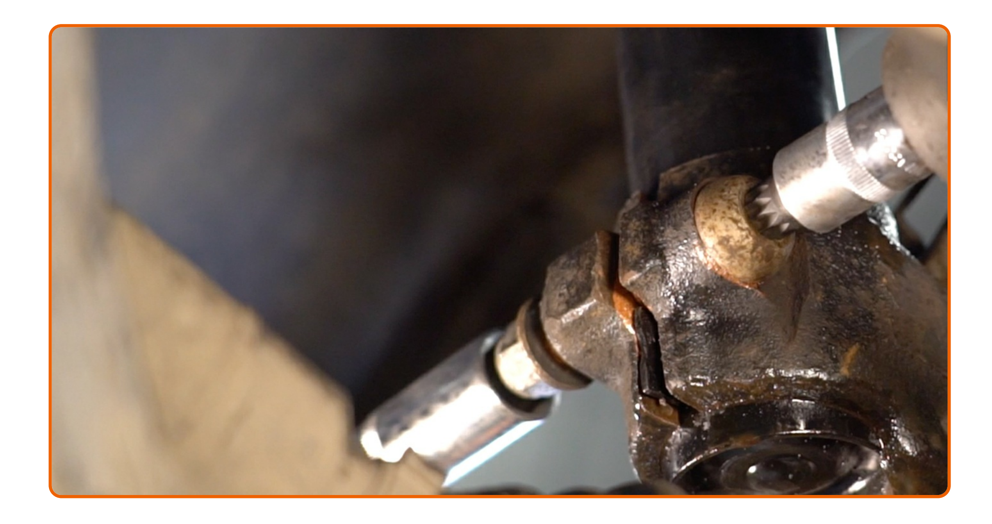
Fix the shock absorber strut on the steering knuckle.

51



Install the fastening bolt.

52



Screw in the fastener that connects the shock strut to the steering knuckle. Use a drive socket #18. Use XZN #12. Use a ratchet wrench.

53



Clean the splines of the drive shaft CV joint. Use a wire brush. Use WD-40 spray.

54



Remove the support from under the steering knuckle.

AUTODOC recommends:

- VW Touran 1T1 1T2 – Do not lower the transmission jack sharply to avoid damaging components and mechanisms of the car.

55



Mount the drive shaft into the wheel hub.

56



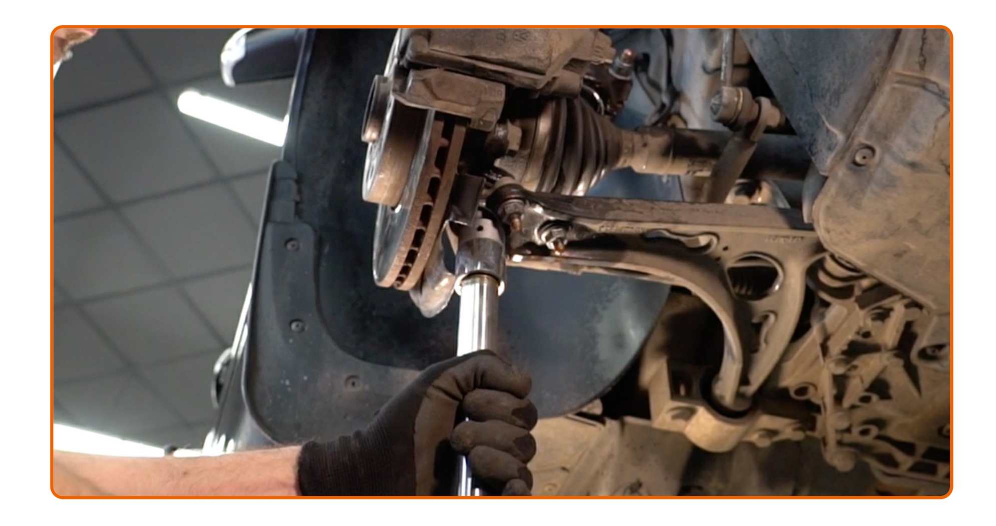
Attach the ball joint to the control arm.

57



Tighten the ball joint fastener. Use a drive socket #16. Use a torque wrench. Tighten it to 50 nm torque.

58



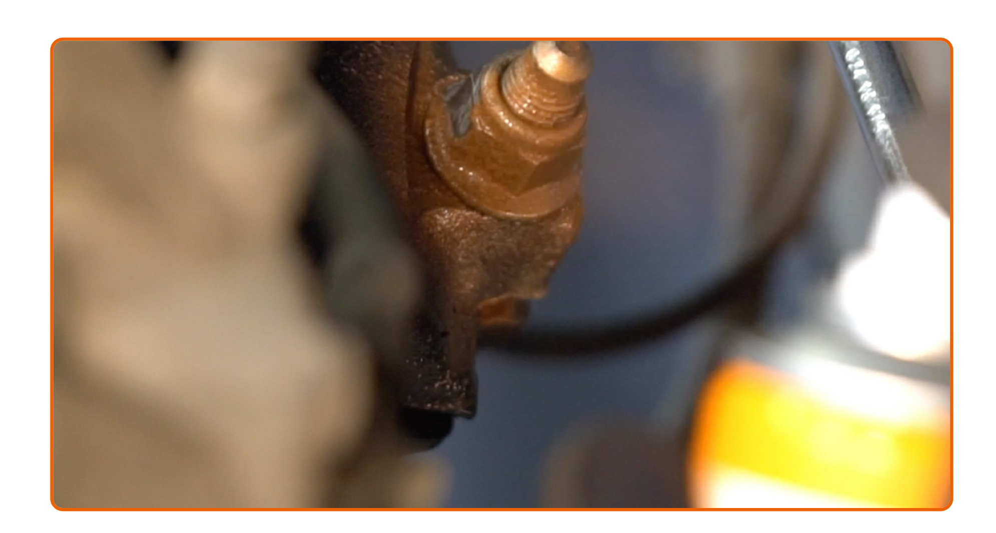
Support the arm. Use a hydraulic transmission jack.

59



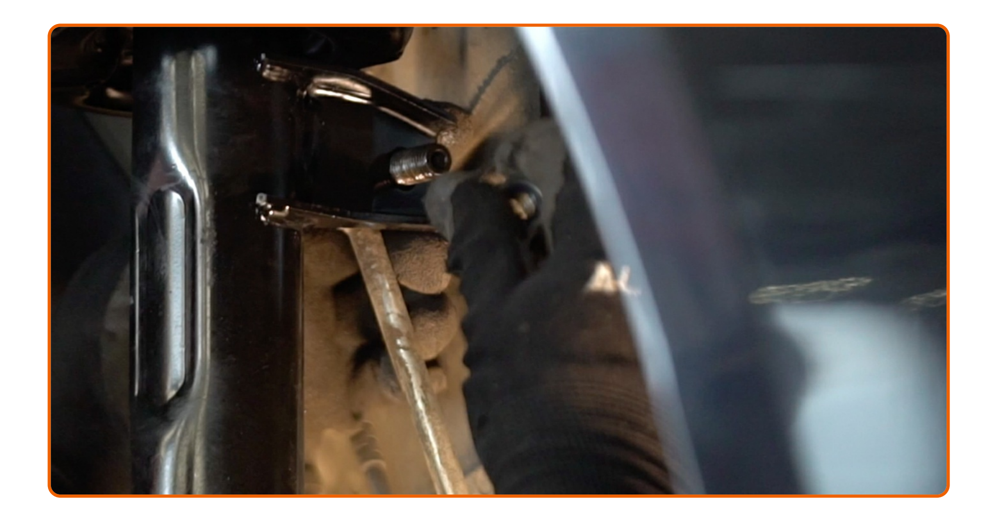
Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a drive socket #18. Use a torque wrench. Tighten it to 125 nm torque.

60



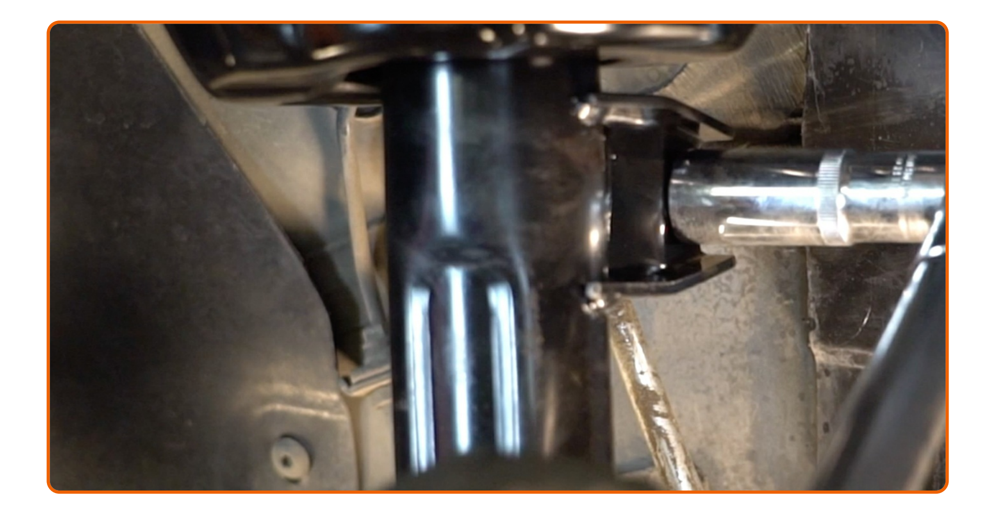
Treat the shock strut fasteners. Treat all joints of the arm. Use copper grease.

61



Install the transverse stabilizer link.

62



Tighten the fastener connecting the stabilizer link to the shock strut. Use a combination spanner #17. Use a drive socket #19. Use a torque wrench. Tighten it to 60 nm torque.

63



Treat all joints of the stabiliser link. Use copper grease.

64



Remove the support from under the arm.

AUTODOC recommends:

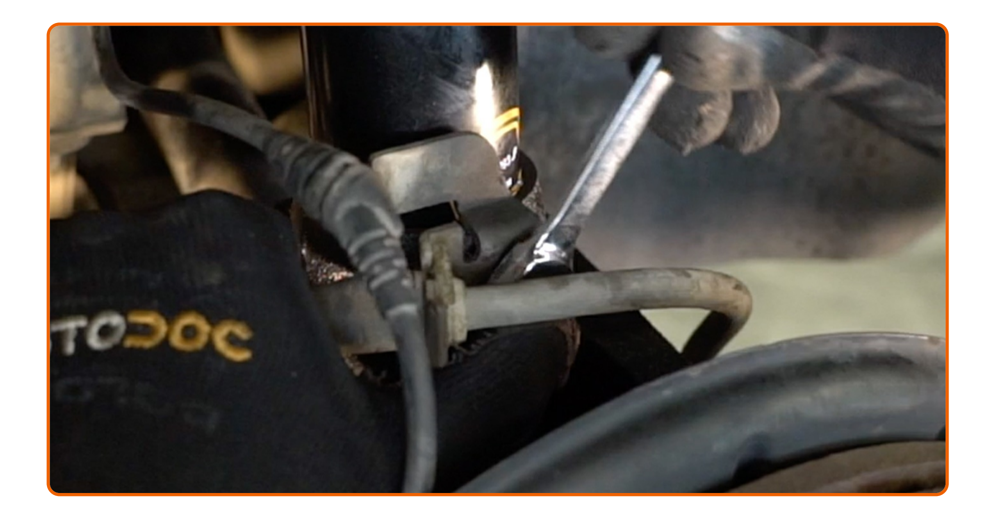
- Replacement: coil springs – VW Touran 1T1 1T2. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

65



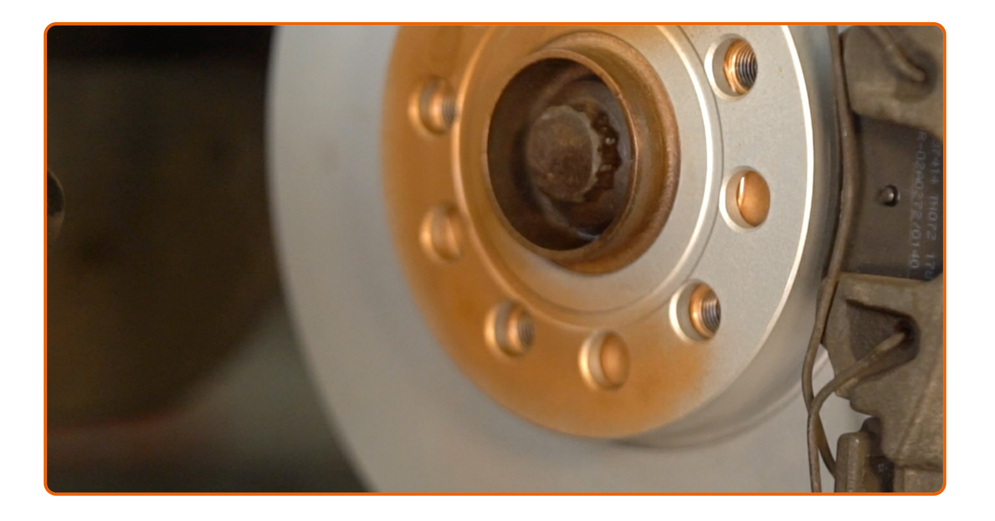
Install and tighten the drive shaft bolt. Use a drive socket #24.

66



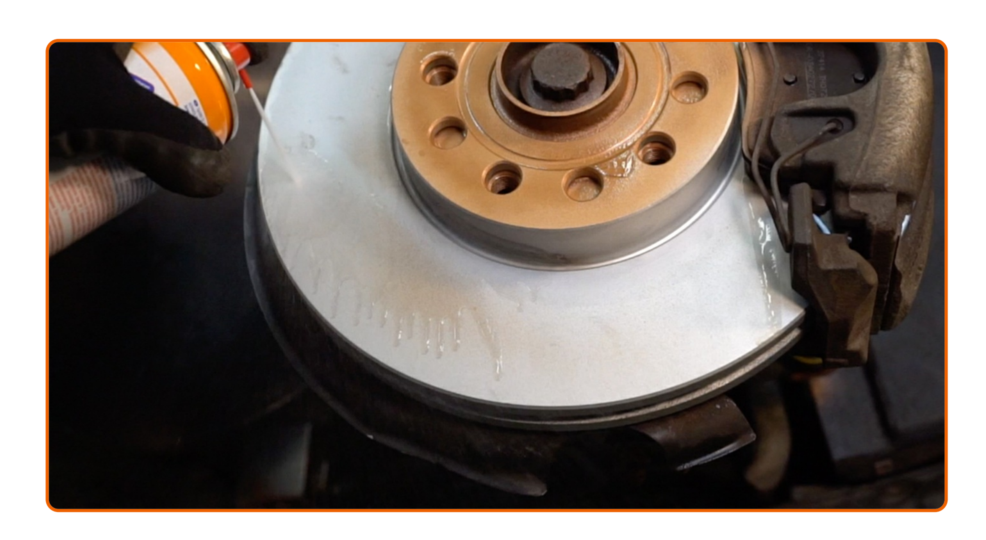
Install the mounting bracket of the brake hose and the ABS cable. Use a combination spanner #11.

67



Treat the surface where the brake disc contacts the wheel rim. Use copper grease.

68



Clean the brake disk surface. Use a brake cleaner.

AUTODOC recommends:

- Replacement: coil springs – VW Touran 1T1 1T2. After applying the spray, wait a few minutes.

69



Install the wheel.

AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. VW Touran 1T1 1T2

70



Screw in the wheel bolts. Use wheel impact socket #17.

71



Lower the car.

72



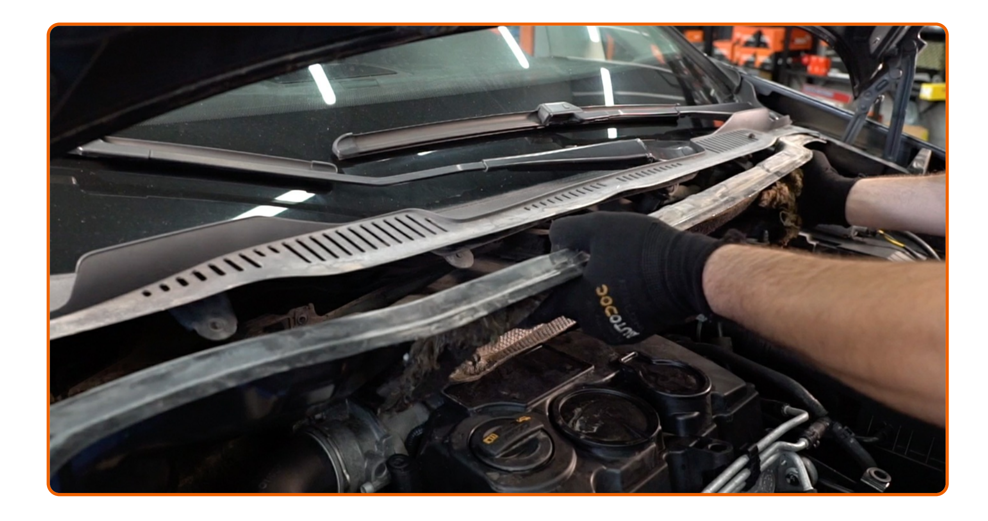
Tighten the upper fastener of the shock absorber strut mount. Use a drive socket #13. Use a torque wrench. Tighten it to 65 nm torque.

73



Treat the fasteners of the shock strut mount. Use copper grease.

74



Install the windscreen wiper scuttle tray.



75



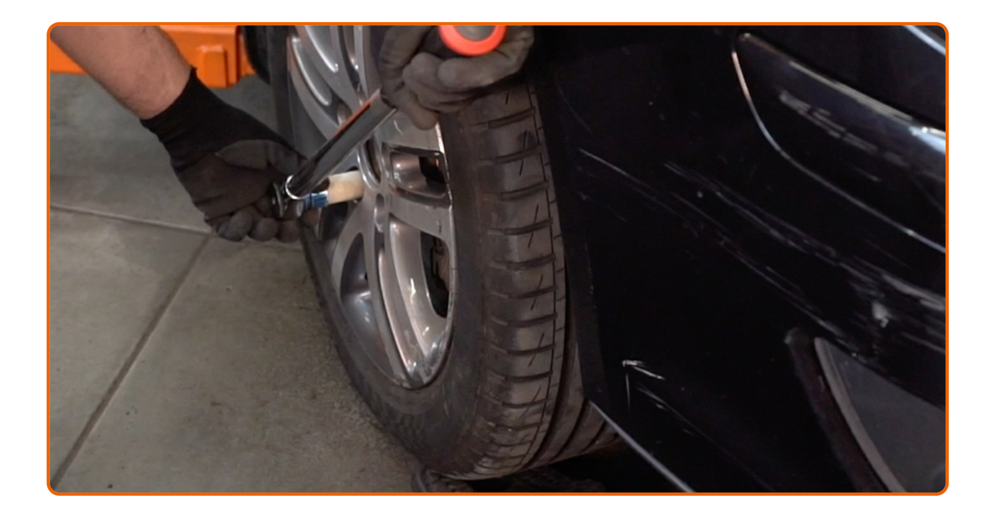
Screw in the fasteners of the windscreen wiper scuttle tray. Use Torx T30.

76



Install the cowl grille seal.

77



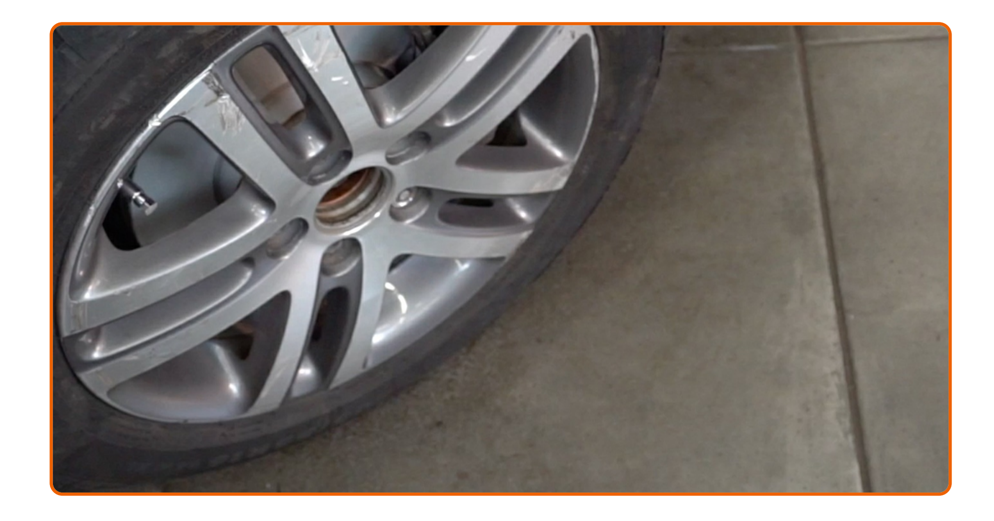
Tighten the wheel bolts using a criss-cross pattern. Use a torque wrench. Tighten it to 120 Nm torque.

78



Tighten the bolt connecting the drive shaft to the wheel hub. Use a drive socket #24. Use a torque wrench. Tighten it to 155 nm torque.

79



Remove the jacks and chocks.

80



Remove the fender protection cover.

81



Close the hood.



DID YOU FIND THESE INSTRUCTIONS HELPFUL?

YES

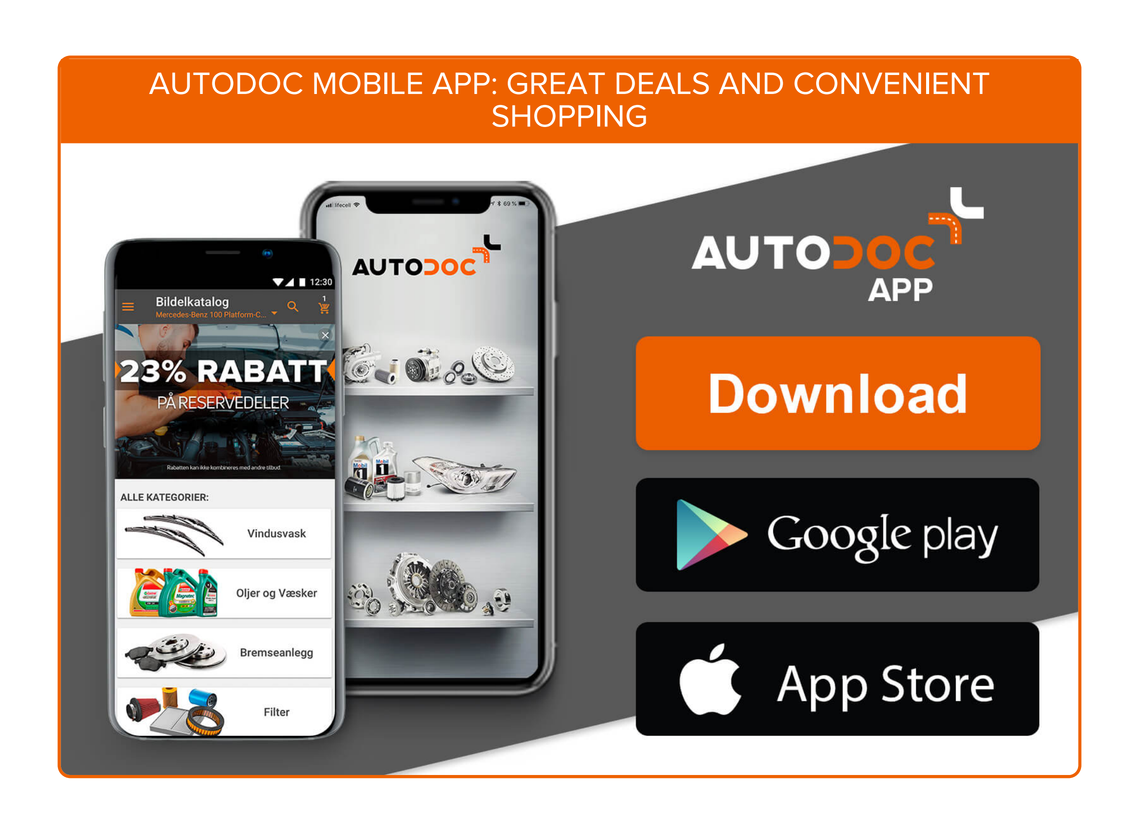
NO



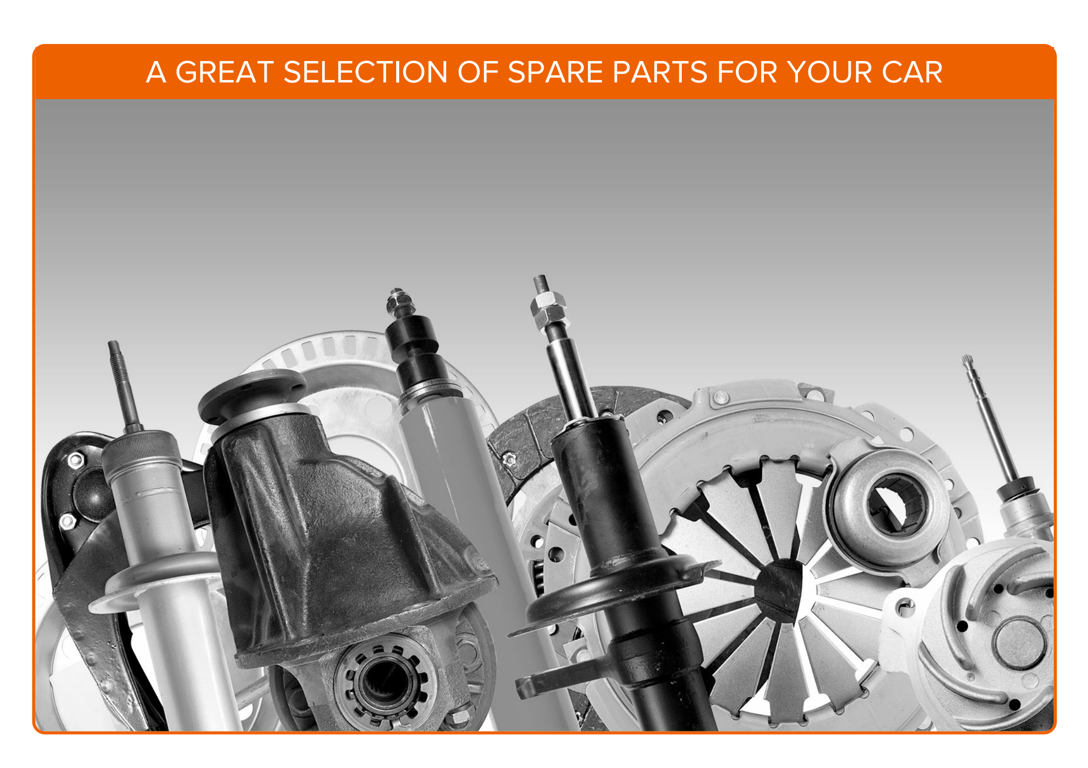
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